



US ARMY CORPS OF ENGINEERS
KANSAS CITY DISTRICT

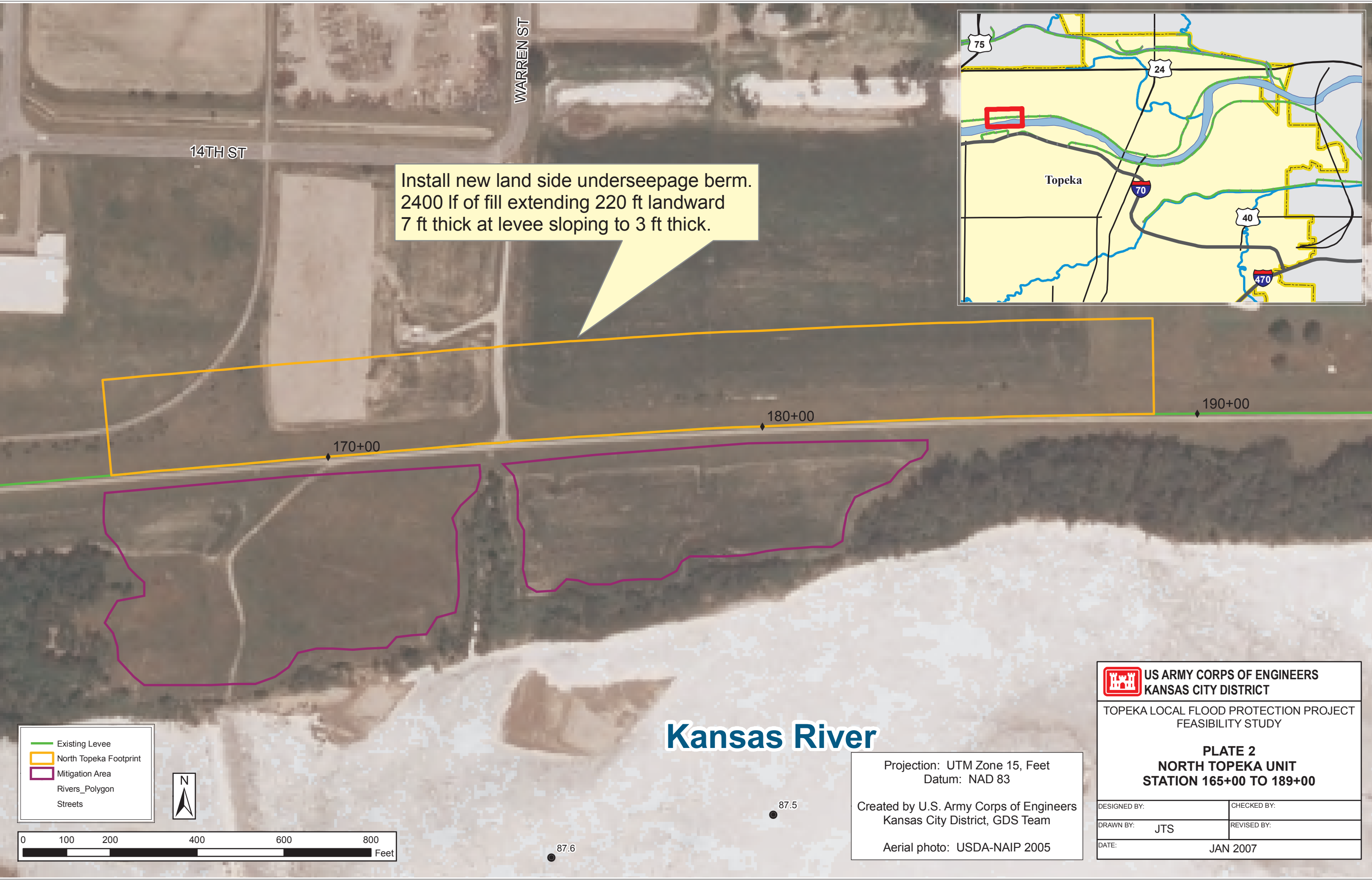
TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

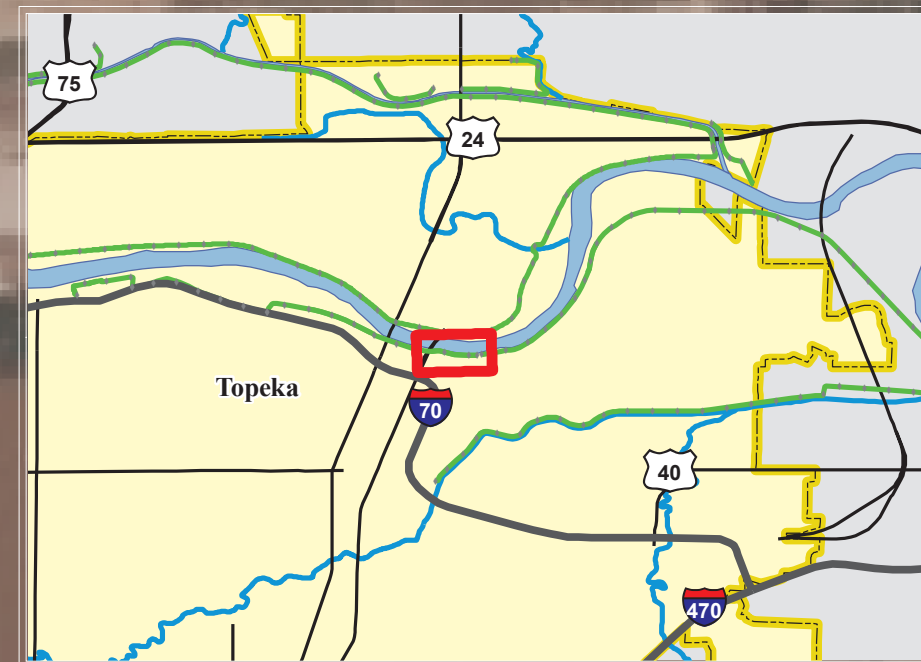
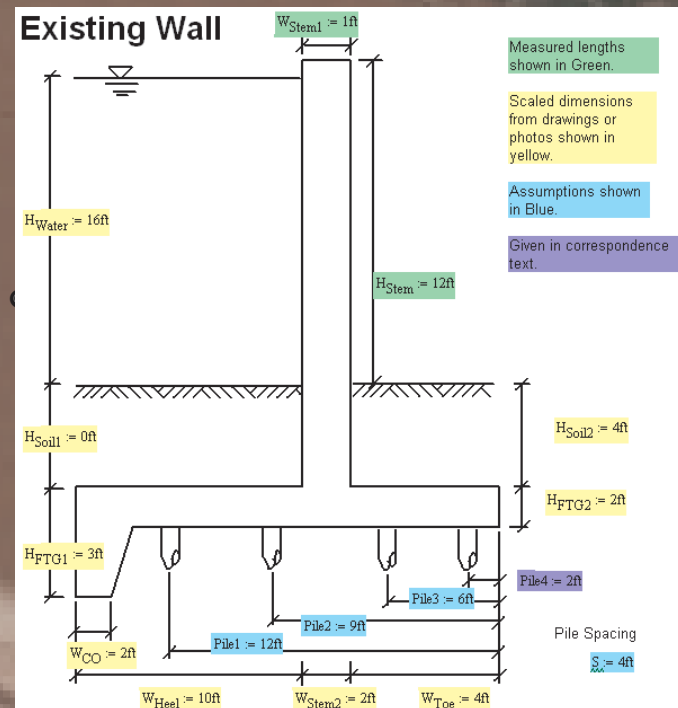
PLATE 1
PROJECT OVERVIEW

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE: JAN 2007	

-  Levee Station
- Levee Unit**
-  Auburndale
 -  North Topeka
 -  Oakland
 -  Soldier Creek
 -  South Topeka
 -  Waterworks
 -  Mitigation Area
 -  Borrow Area







Kansas River

Install wall stiffener at Kansas Avenue pump station (75+84)

Manholes require heel extensions (85+57)

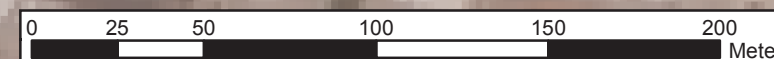
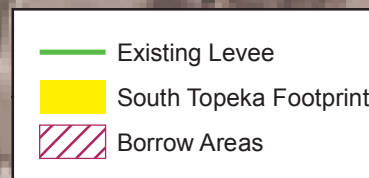
Remove and replace existing pile founded concrete floodwall.

Manholes require heel extensions (84+10 & 84+10a)

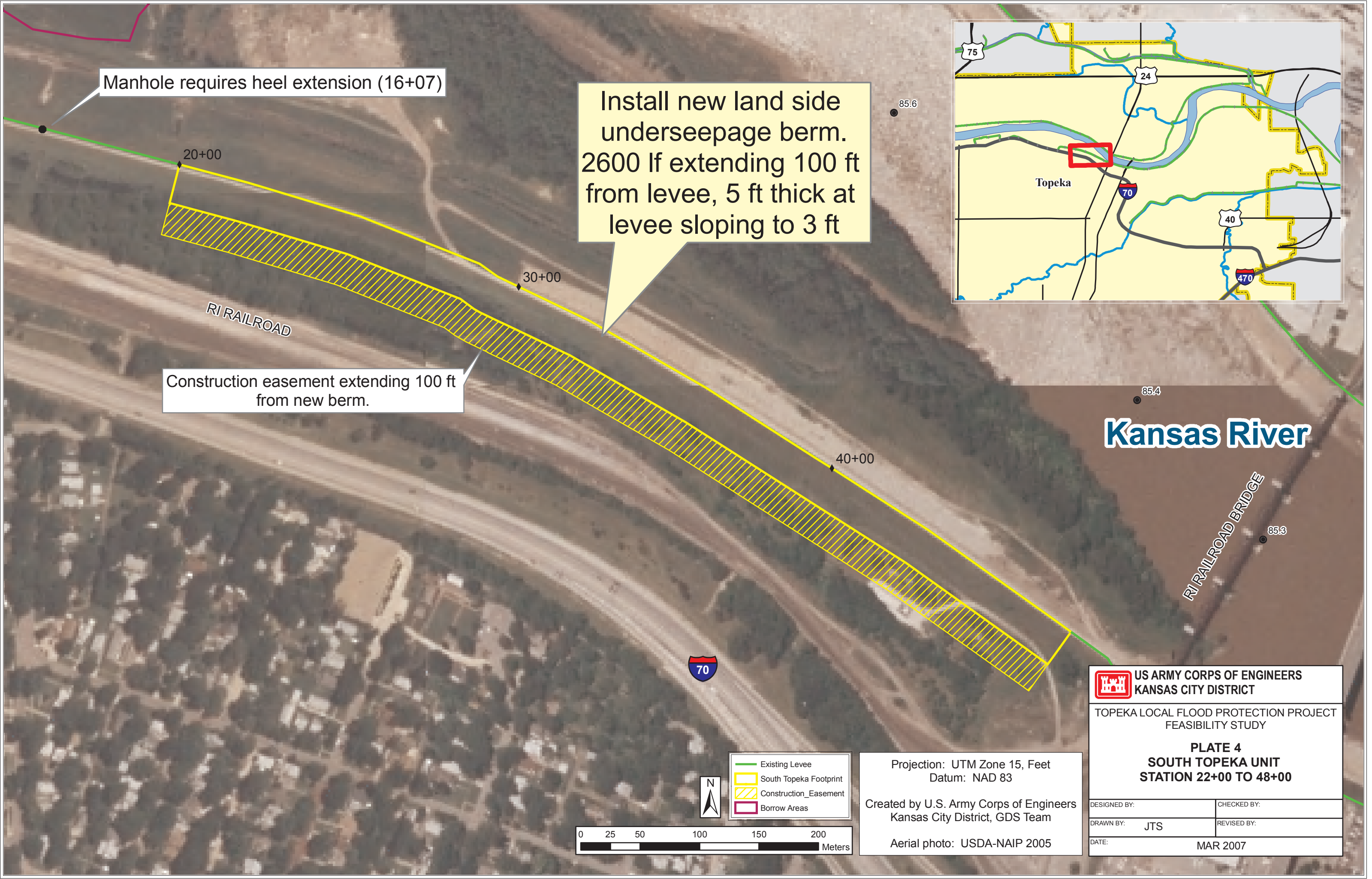
Projection: UTM Zone 15, Feet
Datum: NAD 83

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Kansas City District, GDS Team

Aerial photo: USDA-NAIP 2005



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TOPEKA LOCAL FLOOD PROTECTION PROJECT FEASIBILITY STUDY	
PLATE 3 SOUTH TOPEKA UNIT STATION 74+41 TO 93+86	
DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007



Manhole requires heel extension (16+07)

Install new land side underseepage berm.
2600 lf extending 100 ft from levee, 5 ft thick at levee sloping to 3 ft

Construction easement extending 100 ft from new berm.

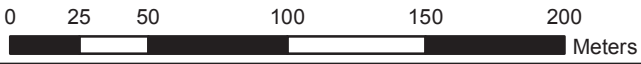
RI RAILROAD

Kansas River

RI RAILROAD BRIDGE




- Existing Levee
- South Topeka Footprint
- Construction_Easement
- Borrow Areas



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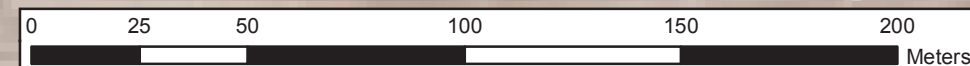
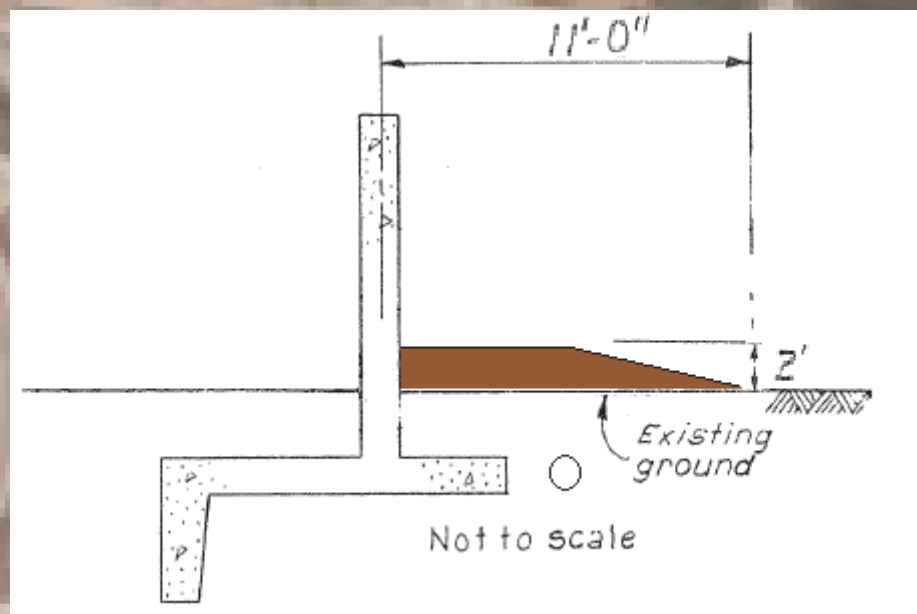
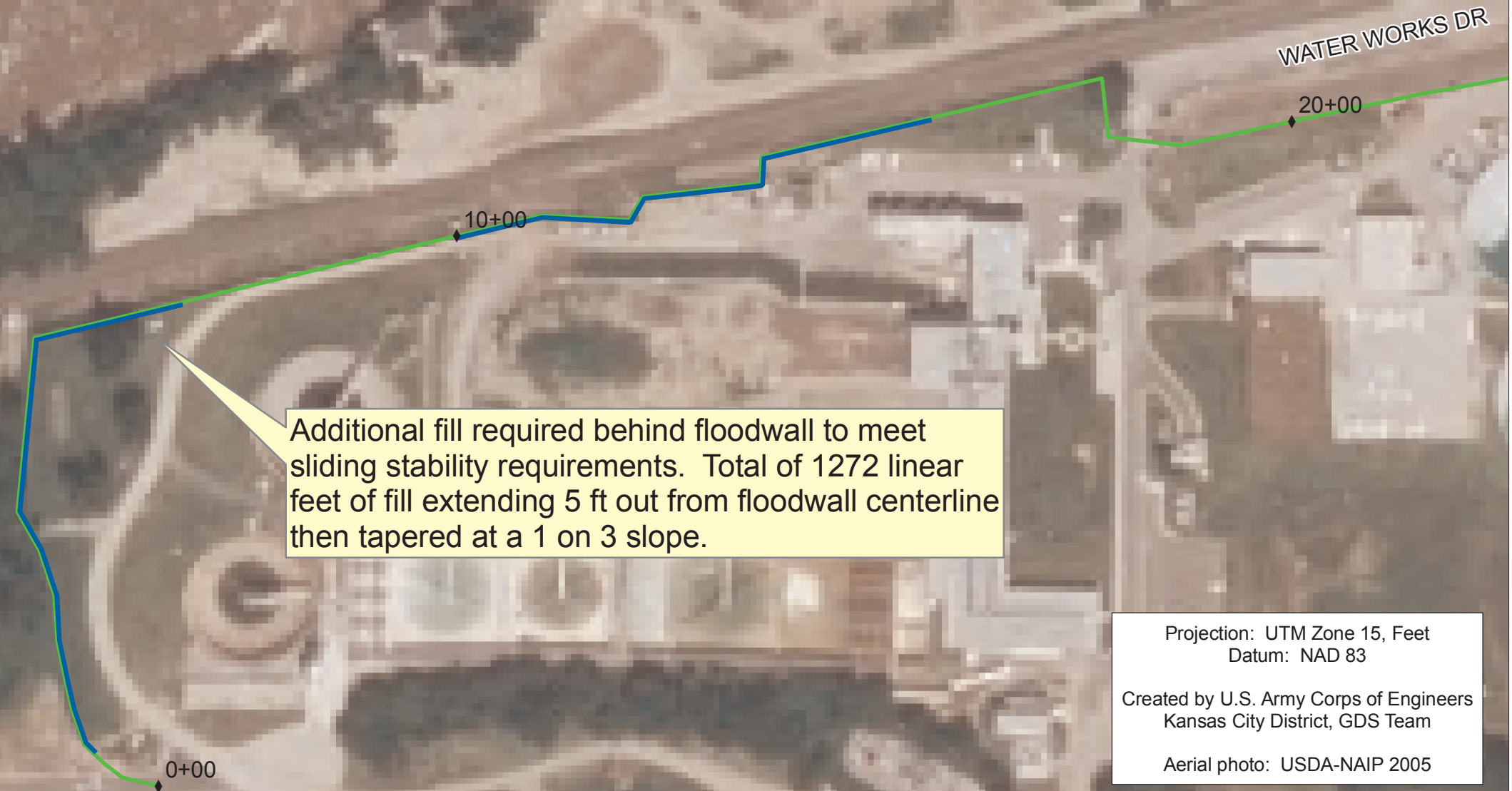
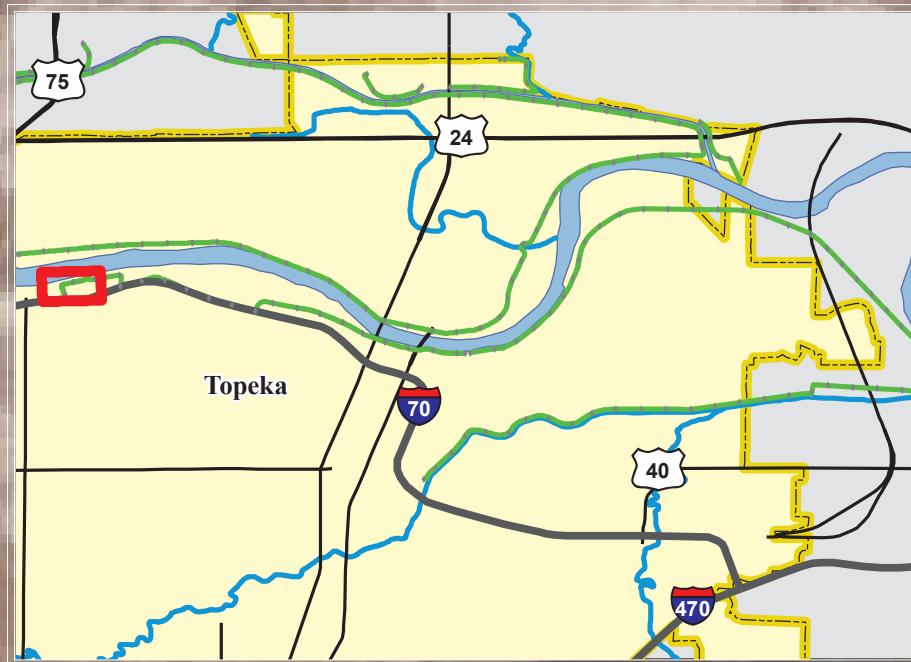
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KANSAS CITY DISTRICT

TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

PLATE 4
SOUTH TOPEKA UNIT
STATION 22+00 TO 48+00

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007

Kansas River



Existing Levee
Waterworks

Projection: UTM Zone 15, Feet
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KANSAS CITY DISTRICT**

TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

**PLATE 5
WATERWORKS UNIT
STATION 0+78 TO 7+00 &
10+00 TO 16+50**

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007



Kansas River

Manhole requires
heel extension (75+50)

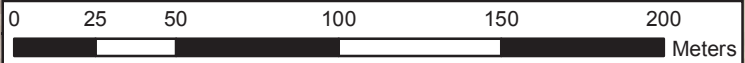
SEWAGE
DISPOSAL
PLANT

Install new land side underseepage berm.
1600 If extending 240 ft from levee, 6.5 ft
thick at levee sloping to 3 ft.

OAKLAND BILLIARD PARK



Existing Levee
Oakland Footprint



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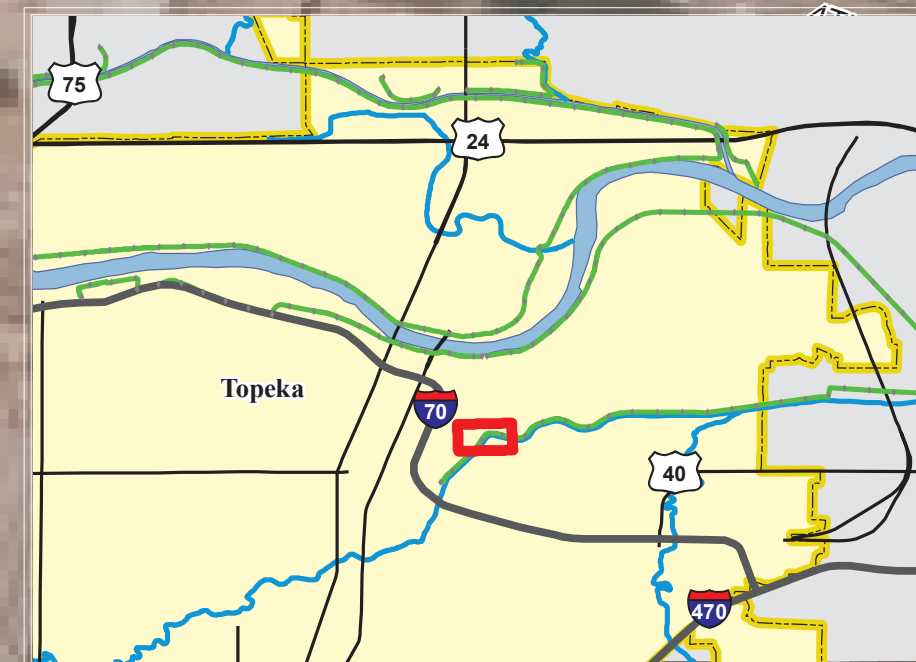
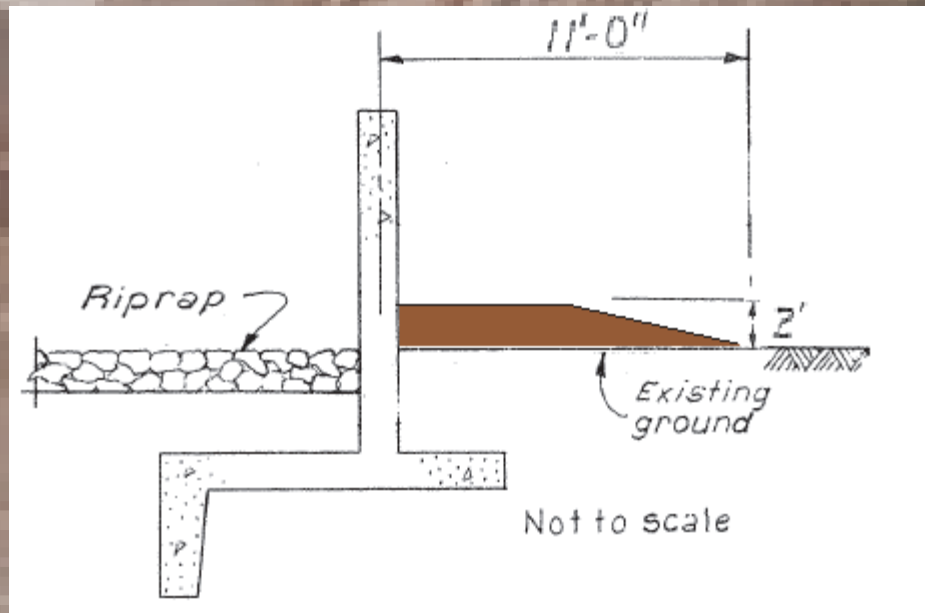


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TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

**PLATE 6
OAKLAND UNIT
STATION 64+00 TO 80+00**

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007



ATSF RAILROAD

6TH AVE

BRANNER ST

Shunganunga Creek

490+00

480+00

Additional fill required behind floodwall to meet sliding stability requirements. Total of 515 linear feet of fill extending 5 ft out from floodwall centerline then tapered at a 1 on 3 slope.

CHESTNUT ST

HANCOCK ST

HANCOCK ST

BRANNER TRFY

Existing Levee
Oakland

0 12.5 25 50 75 100 Meters

Projection: UTM Zone 15, Feet
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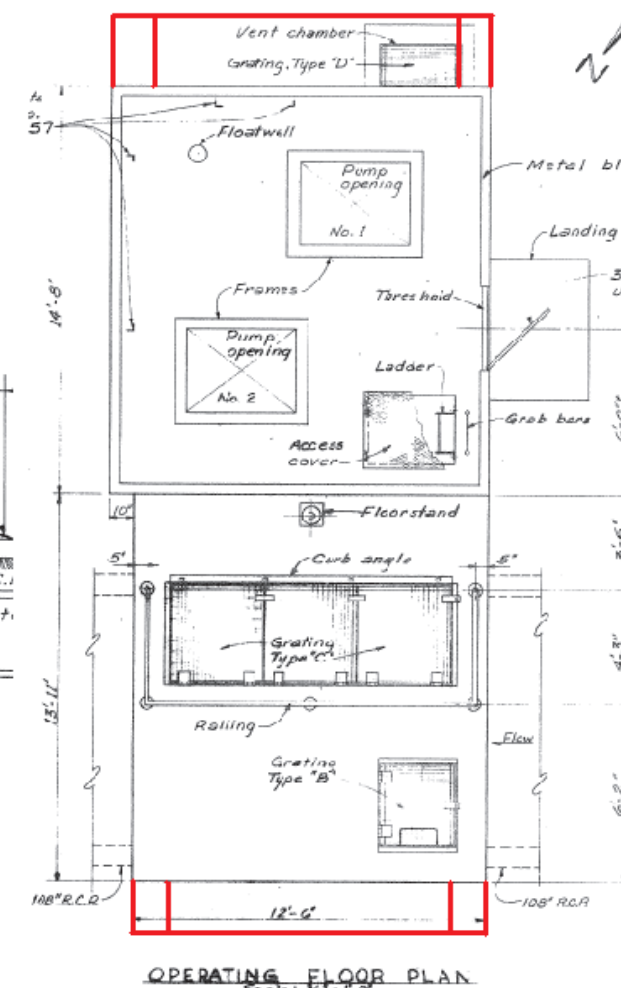
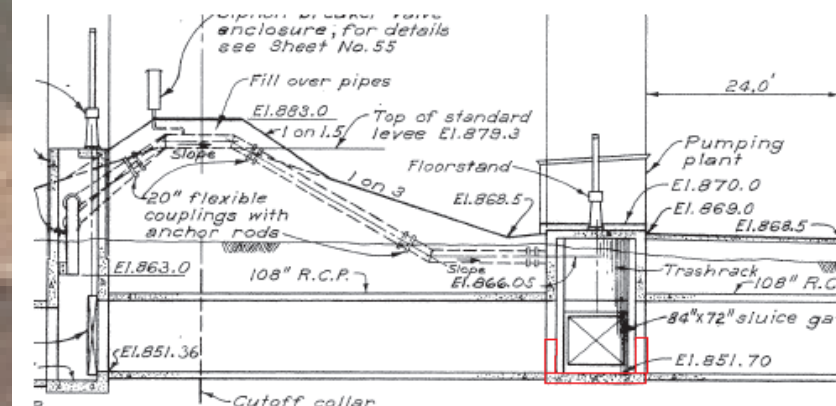
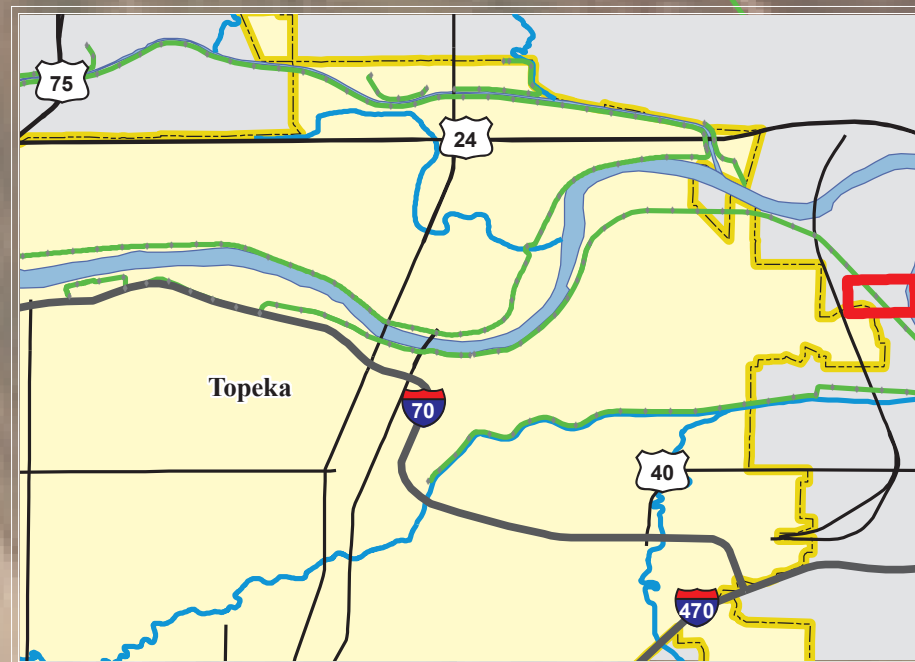


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TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

PLATE 7
OAKLAND UNIT
STATION 485+86 TO 491+01

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007



Add heel extension to
East Oakland Pump Station

KINCAID RD

**Kansas
River**

Projection: UTM Zone 15, Feet
Datum: NAD 83

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Kansas City District, GDS Team

Aerial photo: USDA-NAIP 2005

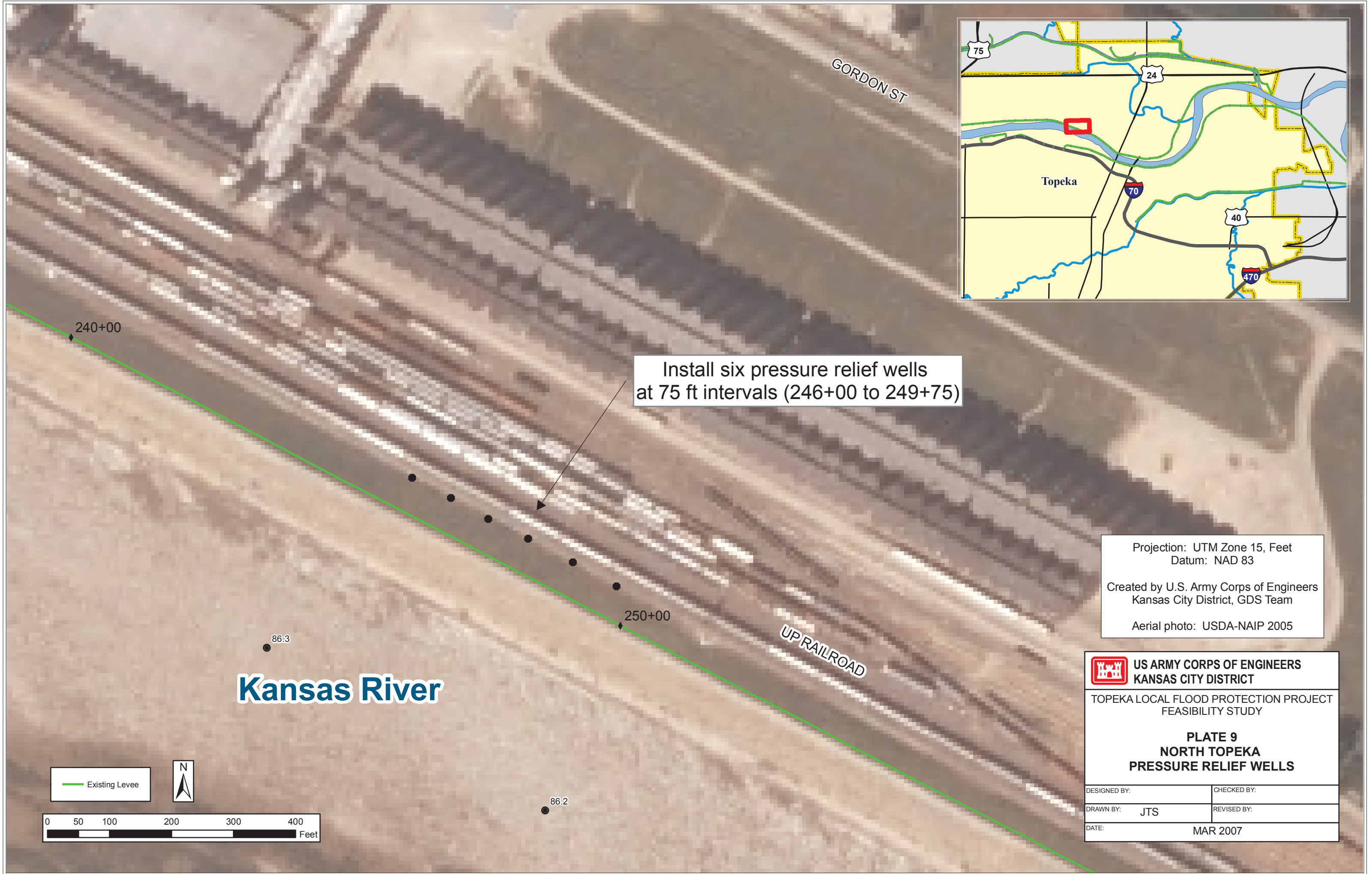


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TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

**PLATE 8
EAST OAKLAND PUMP STATION
STATION 220+00**

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE: MAR 2007	




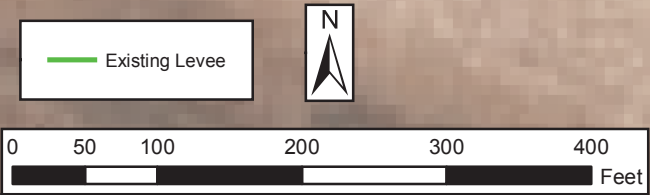
Install six pressure relief wells
at 75 ft intervals (246+00 to 249+75)

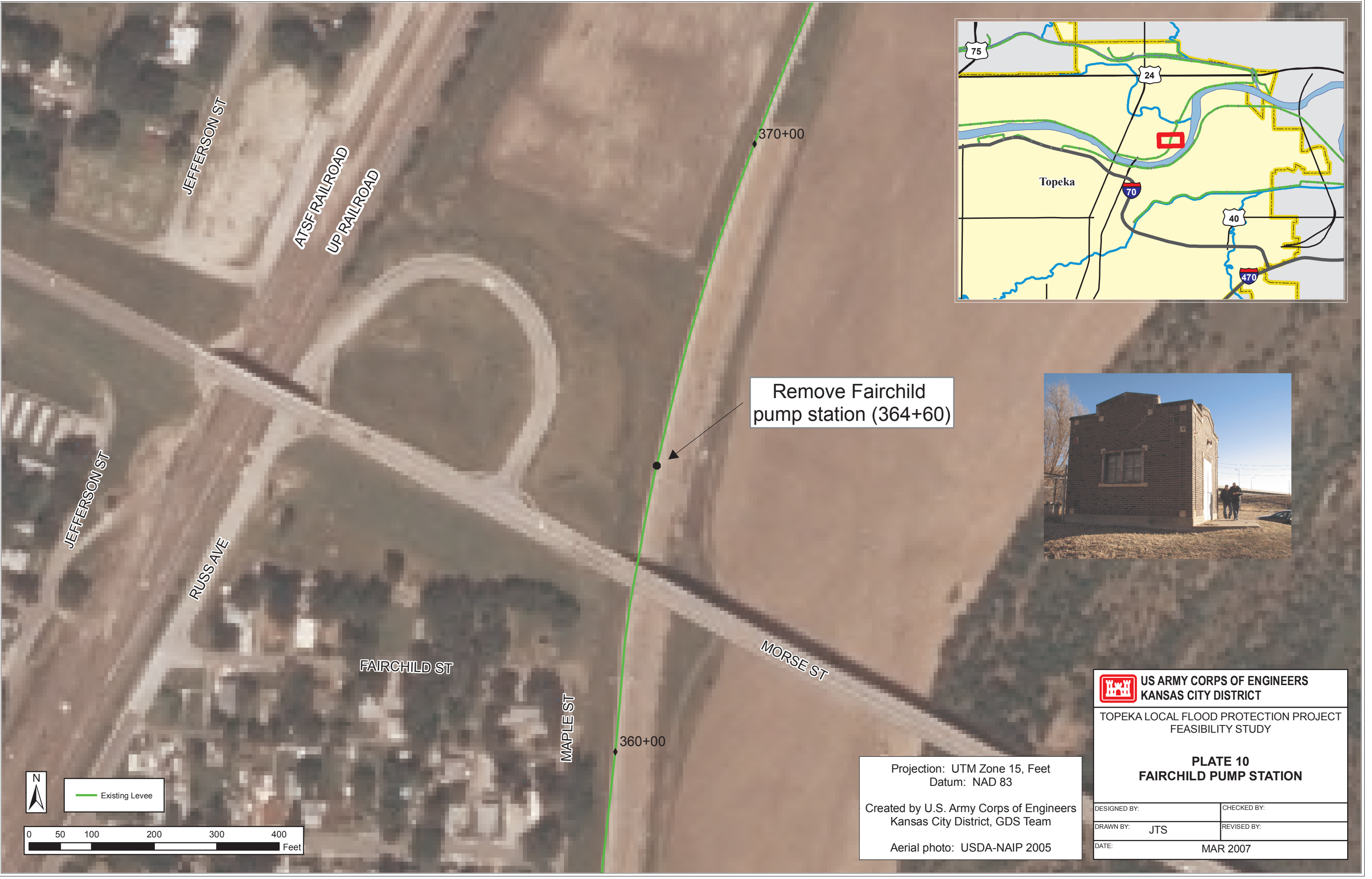
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 US ARMY CORPS OF ENGINEERS KANSAS CITY DISTRICT	
TOPEKA LOCAL FLOOD PROTECTION PROJECT FEASIBILITY STUDY	
PLATE 9 NORTH TOPEKA PRESSURE RELIEF WELLS	
DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE: MAR 2007	






Existing Levee



Projection: UTM Zone 15, Feet
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TOPEKA LOCAL FLOOD PROTECTION PROJECT FEASIBILITY STUDY	
PLATE 10 FAIRCHILD PUMP STATION	
DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE: MAR 2007	

Kansas River

Approximately 95 acres agricultural land available.
Project needs 27.3 acres for borrow with additional
for construction easements.



Existing Levee
Borrow Area



0 25 50 100 150 200
Meters

0+000+00

10+00

10+00

20+00

RI RAILROAD



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TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

PLATE 11
SOUTH TOPEKA BORROW AREA

DESIGNED BY:

CHECKED BY:

DRAWN BY:

JTS

REVISED BY:

DATE:

MAR 2007

Kansas River

Approximately 28 acres
agricultural land available.
Use 19.3 acres for borrow.

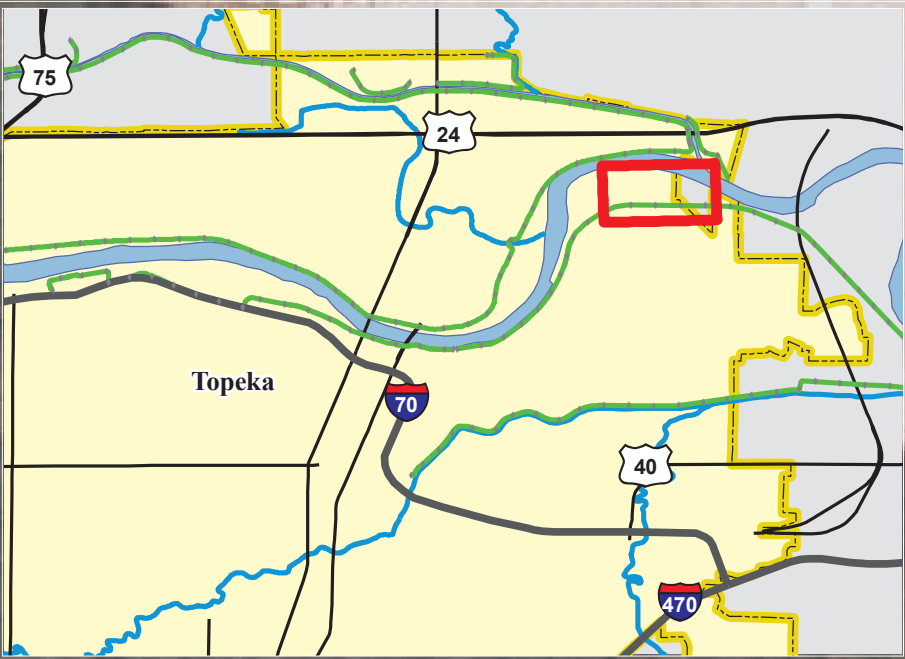
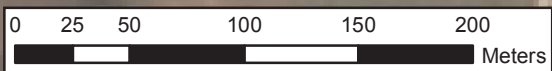
CHESTER AVE

100+00 110+00 120+00 130+00 140+00

NORTH AVE

Existing Levee


Borrow Area



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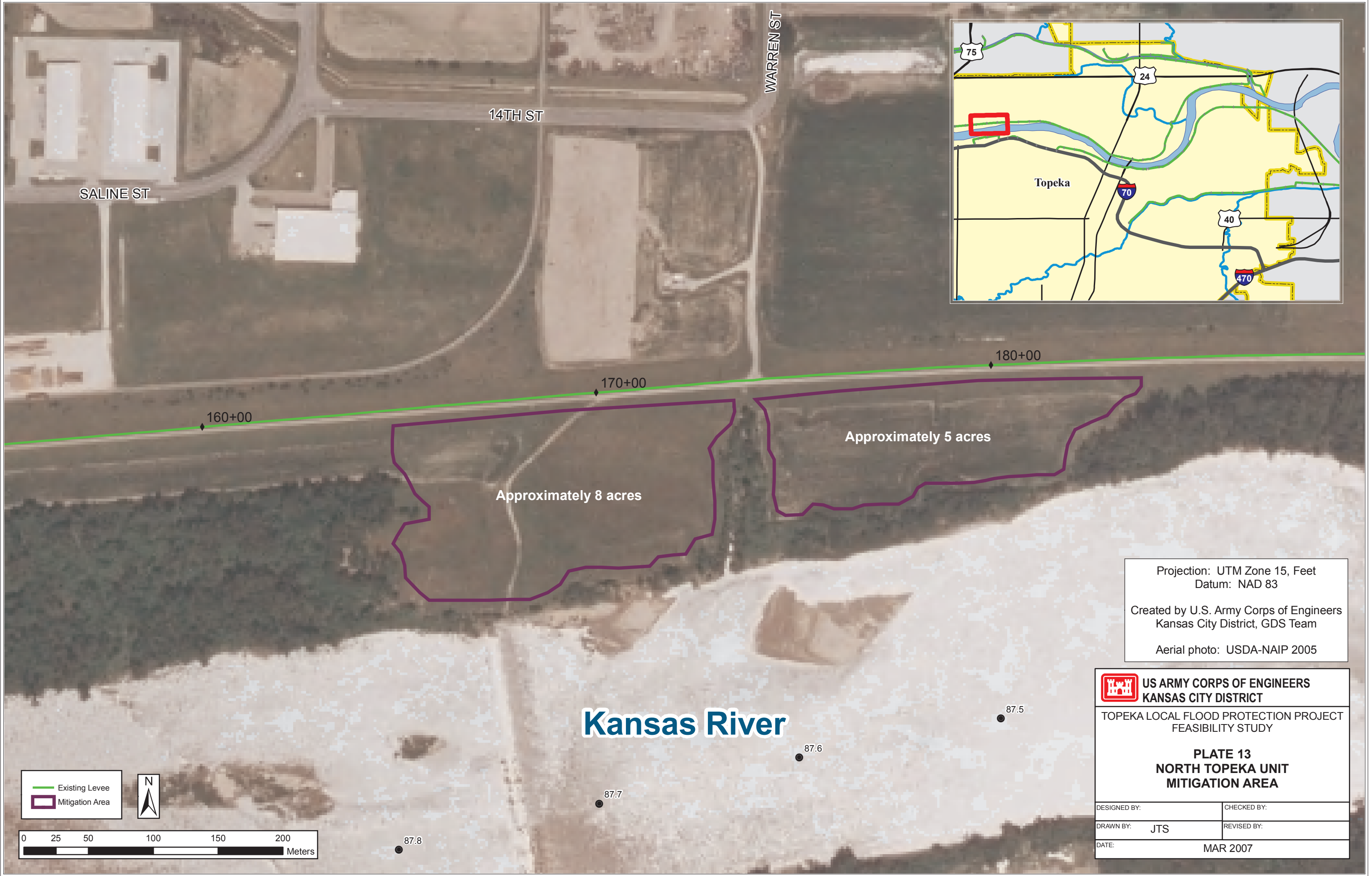


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TOPEKA LOCAL FLOOD PROTECTION PROJECT
FEASIBILITY STUDY

PLATE 12
OAKLAND WEST BORROW AREA


DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE:	MAR 2007



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FEASIBILITY STUDY

**PLATE 13
NORTH TOPEKA UNIT
MITIGATION AREA**

DESIGNED BY:	CHECKED BY:
DRAWN BY: JTS	REVISED BY:
DATE: MAR 2007	

Existing Levee

Mitigation Area

